INSTALLER FRIENDLY SERIES® (IFS) SINGLE PHASE SIMPLEX CAPACITOR (START/RUN)

Demand Dose or Timed Dose, Float or C-Level™ Sensor Controlled System for Pump Control and System Monitoring



Panel layout may vary with options. Reg. Cdn Pat. & TM Off C-Level™ Sensor US Patent No. 8,336,385; 8,567,242; 8,650,949

The IFS simplex capacitor (start/run) control panel utilizes an innovative circuit board design to control one 120/208/240V single phase pump in water and sewage applications. IFS panels feature an easy-to-use touch pad on inner door for programming and system monitoring. The panel configuration can be easily converted in the field to either a timed dose or demand dose. Available with the EZconnex® float system.

The panel can utilize the C-Level™ sensor for continuous level monitoring. It senses the level in the tank and sends a signal to the panel. Pump activation levels can be adjusted by using the panel touch pad. C-Level™ CL40 sensor operating range is 3-39.9 inches (7.6-101.3 cm). C-Level™ CL100 operating range is 3-99.5 inches (7.6-252.7 cm).

- Five-year limited warranty on panel
- Two-year limited warranty on C-Level™ Sensor

NOTE: SJE Rhombus will warranty motor start kit components supplied by SJE Rhombus for one year. SJE Rhombus makes no warranty of any type with respect to motor start kits supplied by the customer.

TOUCH PAD FEATURES

- Level Status indicators illuminate when floats or set points are activated; alarm will activate if a float operates out of sequence
- HOA (Hand-Off-Automatic) buttons control pump mode with indication;
 Hand mode defaults to Automatic when stop level or redundant off level is reached
- C. Pump Run indicator will illuminate when pumps are called to run
- D. LED Display for system information including: level in inches or centimeters (C-Level™ only), mode, pumps elapsed time (hh:mm), events (cycles), alarm counter, float error count, timed dose override counter (timed dose only), and ON/OFF times (timed dose only)
- E. NEXT push button toggles display
- F. UP and SET push buttons set pump ON/OFF times (timed dose only) and activation levels (C-Level™ only)



COMPONENTS

- Enclosure base measures 16 x 14 x 6 inches (40.64 x 35.56 x 15.24 cm); NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use)
- Red LED beacon provides 360° visual check of alarm condition
- Exterior Alarm Test/Normal/Silence switch allows horn and light to be tested and horn to be silenced in an alarm condition; alarm automatically resets once alarm condition is cleared
- Alarm horn provides audio warning of alarm condition (83 to 85 decibel rating)
- Overload relay (optional) provides pump overload protection (Not shown)
- 6. IEC motor contactor controls pump by switching electrical lines
- Circuit breaker (optional) provides pump disconnect and branch circuit protection
- 8. Float and control/alarm incoming terminal block
- Control Power indicator/fuse indicator light illuminates if control power is present in panel; alarm will activate if control fuse is blown
- Alarm Power indicator/fuse indicator light illuminates if alarm power is present in panel
- 11. Large pump connection power terminal block
- Terminal block float and control/alarm incoming power wiring label
- 13. Ground lugs

Note: Options, voltage, and amp range selected may change enclosure size and component layout.

Note: Schematic/Wiring Diagram and Pump Specification Label are located inside the panel.

INSTALLER FRIENDLY SERIES® SINGLE PHASE SIMPLEX CAPACITOR (START/RUN) - Demand dose float controlled system for pump control and system monitoring.

IFS 7 CONTROL MOI TYI	DEL		1 W 1 ALARM ENCLOSURE STARTING PUMP FULL PUMP ACKAGE RATING DEVICE LOAD AMPS DISCONNECTS APPLICATION	8AC OPTIONS (LISTED BELOW)
CONTROL PANEL	1	IFS		IFS Single Phase
MODEL TYPE	√	7	Single Phase Simplex Capacitor (includes Option 8AC as standard)	Simplex Capacitor
ALARM PACKAGE	/	1	Alarm Package (includes test/normal/silence switch, fuse, red light, & horn)	Base Price —————
ENCLOSURE RATING STARTING DEVICE	1	W 1	Weatherproof, NEMA 4X (engineered thermoplastic) 120/208/240V IEC Motor Contactor	Alarm Package
STARTING DEVICE	•	0	0-7 FLA	Enclosure Rating
		1	7-15 FLA #	
PUMP FULL Load Amps		2	15 - 20 FLA	Starting Device
LUAD AMIFS		3	20 - 30 FLA 🛣	
		4	30 - 40 FLA	Pump Full Load Amps
PUMP		0	No Pump Disconnect	
DISCONNECTS		4	Circuit Breaker	Pump Disconnects
		Н	Floats - Fullip Down (Select Option 17 below)	
FLOAT SWITCH		L	Floats - Pump Up (select Option 17 below)	Float Switch Application
APPLICATION		E	EZconnex® Float Switch System (select Option 33 or 34 below)	
		Χ	No Floats WITH Alarm Package	Total Options
		С	C-Level™ Sensor (select Option 24 or 29)* Select Option 3E and/or 4A & 4D for high water alarm and/or redundant off floats	TOTAL LIST PRICE

be used for redundant activation of the high level alarm and pump shut off when using the C-Level™ sensor. Start/run capacitor kits must be ordered separately (see Option 12 below or call factory).

	OPTIONS	DESCRIPTION		(OPTIONS	DESCRIPTION
	3A	Alarm Flasher			16A	10' Cord in Lieu of 20' Cord (per Float)
	3B	Manual Alarm Reset			16B	15' Cord in Lieu of 20' Cord (per Float)
	0.5	High Water Alarm Float (must also select Option 1	at (must also select Ontion 17)		16C	30' Cord in Lieu of 20' Cord (per Float)
	3E	High Water Alarm Float (must also select Option 1 Only Available with Float Switch Application = C			16D	40' Cord in Lieu of 20' Cord (per Float)
	4A	Redundant Off (must also select Option 4D if float	s are required)		17C	Sensor Float® / Internally Weighted (per Float) - Mercury
	4D	Redundant Off Float (must also select Option 4A a	and Option 17)		17D	Sensor Float® / Externally Weighted (per Float) - Mercury
		Thermal Cutout/Heat Sensor Auto Reset			17G	SJE MilliAmpMaster™ / Pipe Clamp (per Float) - Mechanical
	5A	(for pumps with thermal switch leads)			17H	SJE MilliAmpMaster™ / Externally Weighted (per Float) - Mechanical
	5E	Seal Failure Circuit and Red Indicator (2 Wire)			17J	Sensor Float® / Pipe Clamp (per Float) - Mercury
	6A	Auxiliary Alarm Contact, Form C			24E	C-Level™ CL40 Sensor with 25' Vented Cable
,	/ 8AC	Display Board - Includes: ETM Counter. Events (C	vcles) Counter.		24F	C-Level™ CL40 Sensor with 50' Vented Cable
~		Display Board - Includes: ETM Counter, Events (C Alarm Counter (included as standard)	, , ,		24P	C-Level™ CL40 Sensor with 100' Vented Cable
		Pump Overload - Specify Amperage after	0 - 30 FLA		24X	No C-Level™ CL40 Sensor
	9_A	Pump Overload - Specify Amperage after Number 9 Followed by Letter "A"			29A	C-Level™ CL100 Sensor with 25' Vented Cable
		Example: 912A = 12 amp pump	30 - 40 FLA		29B	C-Level™ CL100 Sensor with 50' Vented Cable
	10E	Lockable Latch - NEMA 4X			29C	C-Level™ CL100 Sensor with 100' Vented Cable
	10F	Lightning Arrestor (must select pump circuit breal	kers, control		29X	No C-Level™ CL100 Sensor
	105	Lightning Arrestor (must select pump circuit breal and alarm power combined)	.,		33D 🔳	EZconnex® 3-Port, 25', with 10' Floats (3) / Pipe Clamp
	10K	Anti-condensation Heater			33E	EZconnex® 3-Port, 50', with 10' Floats (3) / Pipe Clamp
	11C	Additional NEMA 1 Remote Alarm Panel (must also s	elect Option 6A)		33G 🔳	EZconnex® 3-Port, 25', with 20' Floats (3) / Pipe Clamp
	11D	Additional NEMA 4X Remote Alarm Panel (must also s	elect Option 6A)		33H 🔳	EZconnex® 3-Port, 50', with 20' Floats (3) / Pipe Clamp
	12B	Customer Supplied Motor Start Components, Mou Enclosure by SJE Rhombus	ınted in		34D 🔳	EZconnex® 4-Port, 25', with 10' Floats (3) / Pipe Clamp, Sealing Plug
	1 Z B	Enclosure by SJE Rhombus			34E	EZconnex® 4-Port, 50', with 10' Floats (3) / Pipe Clamp, Sealing Plug
	12C	Motor Start Components Mounted and Supplied b	y SJE		34G 🔳	EZconnex® 4-Port, 25', with 20' Floats (3) / Pipe Clamp, Sealing Plug
	126	Rhombus			34H 🔳	EZconnex® 4-Port, 50', with 20' Floats (3) / Pipe Clamp, Sealing Plug

^{*}C-Level™ Sensor lengths up to 300 ft. available. Call for details.

■ EZconnex® mechanically-activated, narrow angle float switches with quick release connections

